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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of changing a physical data rate of an air interface on a per channel basis, the method comprising:

providing a plurality of logical communication channels, the plurality of logical communication channels being configured to communicate a signal;

providing a control channel ~~that assigns data rates to~~ as a communication interface between a communication device and a base station, the control channel operable to select and assign a data rate to each of the plurality of logical channels, the control channel including interfered carrier information; and

changing the data rates of the plurality of logical channels on a per channel basis.

2. (Original) The method of claim 1, further comprising providing a high data rate channel.

3. (Original) The method of claim 1, further comprising using a frequency hopping spread spectrum method to transmit the signal over the plurality of logical communication channels.

4. (Previously Presented) The method of claim 1, further characterized in that the control channel operates at a low data rate.

5. (Canceled)

6. (Previously Presented) The method of claim 5, further characterized in that the selected data rate is a multiple of a basic data rate.

7. (Previously Presented) The method of claim 1, further characterized in that logical communication channels having a high data rate communicate data information and logical communication channels having a low data rate communicate voice information.

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8. (Previously Presented) The method of claim 7, further characterized in that the high data rate is between 32 k bits/sec and 256 k bits/sec and the low data rate is between 16 k bits/sec and 32 k bits/sec.

9. (Previously Presented) The method of claim 1, further characterized in that, the signal is communicated between a portable telephone and a base station.

10. (Currently Amended) An air interface comprising:
at least one logical communication channel configured to communicate a signal; and
a control channel ~~that assigns~~ forming a communication interface between a communication device and a base station, the control channel operable to select and assign a
data rate to each of the at least one logical communication channel, the control channel being configured to change the data rate assigned to each of the at least one logical communication channel based upon signal quality information about data communicated with the signal.

11. Canceled.

12. (Previously Presented) The air interface of claim 10, further characterized in that the information about data communicated with the signal further comprises data type information.

13. (Canceled)

14. (Previously Presented) The air interface of claim 10, further characterized in that the communicated signal is transmitted using a frequency hopping spread spectrum method.

15. (Previously Presented) The air interface of claim 10, further characterized in that the control channel includes interfered carrier information.

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16. (Previously Presented) The air interface of claim 10, further characterized in that the control channel uses cyclic redundancy checks (CRC) to determine whether the at least one logical communication channels are disturbed.

17. (Currently Amended) A wireless communication system which provides for low data rate services as well as higher data rate services without a reduction in sensitivity characteristic to switching modulation schemes, the communication system comprising:

a communication device capable of receiving and sending communication signals;

a base station capable of receiving and sending communication signals; and

an air interface of wireless communications between the communication device and the base station, the air interface including a control channel and a plurality of logical communication channels, the control channel ~~changing data rates to~~ operable to select and assign a data rate to each of the plurality of logical communication channels on a per channel basis based upon signal quality information about data communicated with the signal.

18. (Previously Presented) The communication system of claim 17, further characterized in that the air interface includes a high data rate communication channel.

19. (Previously Presented) The communication system of claim 17, further characterized in that the control channel operates at a lowest possible data rate, thereby using a lowest bandwidth and ensuring best sensitivity.

20. (Previously Presented) The communication system of claim 17, further characterized in that logical communication channels having a high data rate communicate data information and logical communication channels having a low data rate communicate voice information.

21. (Previously Presented) The communication system of claim 20, further characterized in that the high data rate is between 32 k bits/sec and 256 k bits/sec and the low data rate is between 16 k bits/sec and 32 k bits/sec.

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22. (Previously Presented) The communication system of claim 17, further characterized in that the communication device is a personal digital assistant (PDA).